

DESCRIPTION AMENDMENTS

Rewrite the paragraph beginning on page 4, line 24, to read as follows:

The rotary ~~machines~~ machine shown in Figure 1 is intended for use in a bore hole of a gas well. Gas flows in the direction of the arrows 10, being drawn from the well by the action of the compressor and pumped under pressure into the bore hole. The effect of the compressor is of course to create a higher pressure at its outlet side, shown to the left in all the figures in the drawings ~~that~~ than at its intake side.

Rewrite the paragraph beginning on page 6, line 20, to read as follows:

It should be added that it is known to provide grooves in the wall of the stator and to extend the tips of the rotor blades into these grooves for the purpose of improving aerodynamic efficiency. The ramped regions in the present invention differ from such grooves in that they are ramped and the steps face in only one direction. Furthermore, if the groove that acts as a guide surface for the impurities does not extend all the way round the circumference, ~~of~~ the blade tips cannot extend into it. Even if the stator wall is rotationally symmetrical, it is not desirable for the rotor blades to reach into the grooves as the aim of the invention is to keep the impurities that collect on the guide surface away from the blades to avoid blade tip erosion. It is furthermore recognised that the groove(s) in the present invention will result in a small penalty, rather than a gain, in terms of the aerodynamic performance of the machine.